



## Data Science & Data Analytics with Python And” R”

### Bundled with Microsoft International Certification Exam MTA -98-381

#### Data analytics fundamentals

#### Data science fundamentals

- Turning Numbers into Better Business Decision
- The Background to Data Analyst & Data scientist
- Task to be done by Data Analyst & Data scientist

#### “R” for Data science and analytics

- Intro to R – Programming tool for Analysis
- What is R- Programming
- Where it can be used

#### Some Special charts for Data Analysis

- Explains how to use charts - waterfall, quadrant and ranking charts – Through R – Programming

#### Analysis with Pivot Tables with R – Programming and Excel

- Teaches you how to use Pivot Tables to reduce, collate, analyze and compare data.

#### Decision Making with Compared Scenario (Scenario Manager)

- Explains how to use Data Tables to compare scenarios for decision-making.

#### Time Series and forecasting with R-Programming and excel

- Gives you the competency required to be able to forecast future values based on past experience. Topics include fitting trend line curves to real-life data and selecting the right kind of trend line to use as the basis for forecasting. Linear forecasting techniques are also developed using charting methods as well as analytic methods on the worksheet.

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#### Introduction to Regression with R-Programming

- Explains multiple regression to identify which individual business inputs are most strongly

#### Python for Data science

- Learn how to install Anaconda and work within the iPython/Jupyter environment, a powerful framework for data science analysis
- Work with Python data science packages including Numpy, Pandas, Scikit and Matplotlib.
- Read in data from different sources (including webpage data) and clean the data
- Carry out data exploratory and preprocessing tasks such as tabulation, pivoting and data summarizing in Python
- work with real life data collected from different sources
- Carry out data visualization and understand which techniques to apply when.

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- Work around most common statistical data analysis techniques in Python including t-tests and linear regression Understand the difference between

### Machine learning and statistical data analysis

- Implement different unsupervised learning techniques on real life data.
- Implement supervised learning (both in form of classification and regression) techniques on real data.
- Evaluate the accuracy and generality of machine learning models.
- Build basic neural networks and deep learning algorithms
- Use the powerful H2o framework for implementing deep neural networks



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### Program details

Duration 40 hrs. Training

Fees Rs 6900 + GST Microsoft certification + Training + Includes certification bundled on one of the imp technologies used in data science: - i.e. Microsoft International Certification- MTA on Python

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